

We Claim:

- 5 1. A textile article having flame resistant properties comprising
a plurality of inherently flame resistant fibers formed into a fabric, and
a finish on the fabric,
wherein the finish imparts a property selected from the group consisting of: an
antimicrobial agent, a soil repellent and a fluid repellent.
- 10 2. The textile article according to claim 1 wherein the finished textile
article has a flame resistance that passes the standard method NFPA 701 – 1996
edition testing protocol.
- 15 3. The textile article according to claim 1 wherein the article is made of
polyester fibers.
4. The textile article according to claim 3 wherein the article is made of
AVORA™ fibers.
- 20 5. The textile article according to claim 1 wherein the antimicrobial agent
is a molecularly bound antimicrobial agent.
6. The textile article according to claim 5 wherein the antimicrobial agent
is an organosilane.
- 25 7. The textile article according to claim 6 wherein the antimicrobial agent
is AEM 5700™.
- 30 8. The textile article according to claim 1 wherein the fluid repellent is a
fluorochemical.

9. The textile article according to claim 8 wherein the fluid repellent is also a soil repellent.

10. The textile article according to claim 9 wherein the fluid is ZONYL
5 7040™.

11. The textile article according to claim 1 wherein the textile article is a bedspread.

10 12. The textile article according to claim 1 wherein the textile article is a drapery.

13. The textile article according to claim 1 wherein the textile article is upholstery fabric.
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14. The textile article according to claim 1 wherein the finish includes a flame retardant.

15. The textile article according to claim 14 wherein the flame retardant is
20 a phosphonate.

16. The textile article according to claim 15 wherein the flame retardant is a cyclic phosphonate.

25 17. The textile article according to claim 16 wherein the finish includes Flame Retardant 50.

18. The textile article according to claim 1 wherein the article is made from Trevira CS fibers.
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19. A textile article having flame resistant properties comprising

25. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the flame retardant is a phosphonate.

26. A method as claimed in claim 22 wherein saturating the fabric includes
5 saturating with a composition in which the flame retardant is a cyclic phosphonate.

27. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the flame retardant is Flame Retardant 50.

10 28. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the flame retardant comprises between about 2 % and 10 % by weight of the composition.

29. A method as claimed in claim 22 wherein saturating the fabric includes
15 saturating with a composition in which the flame retardant comprises about 4.8 % by weight of the composition.

30. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the antimicrobial agent is a molecularly bound
20 antimicrobial agent.

31. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the antimicrobial agent is an organosilane.

25 32. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the antimicrobial agent is AEM 5700™.

33. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the antimicrobial agent comprises between
30 about 0.2 % and 2.0 % by weight of the composition.

34. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the antimicrobial agent comprises about 0.48 % by weight of the composition.

35. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the fluid repellant is also a soil repellant.

36. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the fluid repellant is a fluorochemical.

37. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the fluid repellant is ZONYL 7040™.

38. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the fluid repellant comprises between about 2 % and 10 % by weight of the composition.

39. A method as claimed in claim 22 wherein saturating the fabric includes saturating with a composition in which the fluid repellant comprises about 3.6 % by weight of the composition.

40. A method as claimed in claim 22 wherein forming includes fabric formation from Trevira CS fibers.

41. A method as claimed in claim 22 wherein forming includes fabric formation from AVORA™ fibers.